

Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

The invention relates to a method and a device for determining the parameters of a fluctuating flow of a fluid in a pipe, wherein at least three electrodes {S₁, E, S₂} that are placed at a distance from one another in the direction of flow are provided in the periphery of the flow, wherein alternating voltage signals {s_s} are fed to a first upstream transmission electrode arrangement {S₁} and to a second downstream transmission electrode arrangement {S₂} and the receiving signals {s_e} generated by the displacement current are detected in a receiving electrode arrangement {E} located between the transmission electrodes and subjected to a time-discrete cross-correlation. The throughput times of the fluctuations detected by the electrodes are determined on the basis of the results.

Attachment